

SALAYEVA, Z.M., kand.med.nauk

Compound treatment of hemorrhagic encephalitis with ionophoresis
of the upper cervical ganglion. Azerb.med.zhur. 40 no.1:10-15
Ja 63. (MIRA 16:3)

1. Iz kafedry nervnykh bolezney (zav. - zasluzhennyy deyatel'
nauki, prof. A.V. Feyzullayev [deceased]) Azerbaydzhanskogo
gosudarstvennogo instituta imeni N. Narimanova (rektor - zaslu-
zhennyy deyatel' nauki, prof. B.A. Eyvazov).
(BRAIN—HEMORRHAGE) (ELECTROPHORESIS)

SALAYEVA, Z.M., dotsent; SUKHOVA, I.A.

Casuistics of the localization of a bullet in the brain.
Azerb. med. zhur. 41 no. 11: 77-79 N '64. (MIRA 18:12)

FRIED, K.;SALAYOVA, J.

Treatment of dermatitis following irradiation. Prakt. lek., Praha 33 no.
14:325-326 20 July 1953. (CML 25:1)

1. Of the Radiological Department (Head--K. Fried, M.D.) of OUNZ Kladno.

93

~~SALAZANOV, V.7.~~

Evaporation from the surface of the snow in Yakutia. Trudy TSIP
no. 58:121-126 '57. (MLRA 10:3)
(Yakutia--Snow) (Yakutia--Evaporation)

SOV/50-59-2-11/25

3(7)

AUTHOR:

Salazanov, V. V.

TITLE:

Taking Into Account the Losses of Water Supply Due to Infiltration in Forecasting the Spring Water Supply (Ob uchete poter' talogo stoka na infil'tratsiyu pri prognoze elementov vesennego stoka)

PERIODICAL:

Meteorologiya i gidrologiya, 1959, Nr 2, pp 43 - 44 (USSR)

ABSTRACT:

It is pointed out that in forecasting it is always necessary, with respect to losses due to infiltration, to take into account both wetting and freezing.

$S = \frac{Ll}{50}$ k is taken to be characteristic of both facts;
L = mean freezing depth of the soil in the basin prior to melting, l = average precipitation in the basin during the 2 months prior to the autumnal temperature drop below zero, and k = a coefficient varying between 0.1 and 1.0 and dependent on the amount of precipitation and freezing of the soil. S is an interpolation quantity and indirectly takes account of the amount of ice in the soil prior to

Card 1/2

Taking Into Account the Losses of Water Supply Due to SOV/50-59-2-11/25
Infiltration in Forecasting the Spring Water Supply

melting. The plotting of curves for the forecast using S
is shown. There are 2 figures and 1 table.

Card 2/2

SALAZAROV, V.V.

PHASE I BOOK EXPLOITATION

SOV/4511

Moscow. Tsentral'nyy institut prognozov

Voprosy gidrologii (Problems in Hydrology) Moscow, Gidrometeoizdat (Otd-niye)
1959. 98 p. (Series: Its: Trudy, vyp. 94) 800 copies printed.

Sponsoring Agencies: Tsentral'nyy institut prognozov; Glavnoye upravleniye
gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.

Ed. (Title page): N.Ya. Podvishenskaya; Ed. (Inside book): V.S. Kornilenko;
Tech. Ed.: T.Ye. Zemtsova.

PURPOSE: This publication is intended for hydrological forecasters in field offices
of the Hydrometeorological Service. It will also be of interest to scientific
research workers.

COVERAGE: This issue of the Transactions of the Central Institute of Weather Fore-
casting contains articles dealing with problems in hydrological forecasting. In-
dividual articles discuss forecasting of snowmelt runoff, forecasting on the basis
of groundwater, flood runoff and maximum discharge forecasting, etc. Evaluation of
forecasting methods is given and their accuracy is analyzed. No personalities are

Card 1/3

SOV/4511

Problems in Hydrology

mentioned. References follow each article.

TABLE OF CONTENTS:

Kravchenko, N.A. From the Experience of Supplying the Dubossary Hydroelectric Power Plant With Hydrological Forecasts	3
Salazanov, V.V. Estimating the Meltwater Runoff Losses Through Seepage During the Spring Flood Period	9
Lebedeva, N.D. Calculation of Snowmelt and a Method for Short-Range Forecasting of the Date of Maximum Flood Level on the Kama River	15
Rozova, A.P. Methods for Long-Range Forecasting of Runoff and Maximum Discharge of Floods on the Rivers of the Upper Volga Basin	34
Kalinin, G.P., and T.T. Makarova. Investigation of Some Problems of Spring Flood Runoff	37

Card 2/3

SALAZANOV, V.V.

Some problems of the formation and forecast of the spring
flow of the upper Dnieper. Sbor. rab. po gidrol. no.4:3-51
'64. (MIRA 19:1)

1. Upravleniye gidrometeorologicheskoy sluzhby Belorusskoy SSR.

SALAZANOV, Vladimir Vasil'yevich; FODVISHENSKAYA, N.Ya., kand.
tekhn. nauk, otv. red.; CHEPELKINA, L.A., red.

[Spring runoff of the rivers in the upper Dnieper Basin;
conditions governing their formation and the forecasting
methods] Vesennii stok rek basseina Verkhnego Dnepra; us-
loviia formirovaniia i metody prognozov. Leningrad, Gid-
rometeoizdat, 1964. 141 p. (MIRA 17:6)

SALAZEMNIECE G.

(1) Biochemical study of blood proteins. I. Determination of globin in small amounts of blood. G. Salazemniece (Inst. Exptl. Med., Acad. Sci. Latv. S.S.R., Riga). ~~Latvian PSR Zinatju Akad. Vests 1955, No. 2 (Whole No. 81), 77-82 (Russian summary).~~—Globin from 0.2 ml. blood samples was sepd. by Me_2CO pptn. from hemolyzed erythrocytes and detd. by the Kjeldahl method, by drying to const. wt., and colorimetrically by biuret reaction. The last method gave erroneous results. The N content in globin underwent large variations, depending on the functional condition of the hemopoietic system. It is proposed that the cause of the higher N content in some cases is presence of amino acids. Andrew Dravnieks

ROSTOVTSEVA, I.A.; SALAZHOV, Ye.L.

Role of the identity of antigenic properties of the epizootic and commercial strains of the foot-and-mouth disease virus in specific prophylaxis. Veterinariia 40 no.3:17-23 Mr '63.
(MIRA 17:1)

1. Gosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh preparatov.

L 31310-66 EWT(1)/T JK

ACC NR: AP6022582

(A,N)

SOURCE CODE: UR/0346/66/000/001/0020/0022

AUTHOR: Darda, P. N.; Salazhov, Ye. L.; Antonyuk, V. P.; Likhachev, N. V. (Professor; Scientific director) 25
B

ORG: State Scientific Control Institute of Veterinary Preparations (Gosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh preparatov)

TITLE: Antigenic properties of foot-and-mouth disease virus strain Ai

SOURCE: Veterinariya, no. 1, 1966, 20-22

TOPIC TAGS: foot and mouth disease, antigen, virus, virology

ABSTRACT: Serological and biological tests (complement fixation test) were conducted to investigate the antigenic properties of an epizootic strain (Ai) of the foot-and-mouth disease virus isolated in 1964 in Trans-Caucasus. The strain was found to belong among the variants of Type A of the virus and is distinguished in its properties from the A-102, A-103, and A-standard variants cultivated in the laboratory. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: none

Card 1/1 CC

UDC: 619.616.988.43-097

09/5

0599

AMAYEV, A.A.; SALAZHEV, V.M.

Using surface active agents in petroleum production. Neft.
khoz. 39 no.4:33-37 Ap '61. (MIRA 14:6)
(Oil field flooding) (Surface active agents)

SALASHOV, Ye.I.; TAGORONKIN, N.V.; MUSTAFAYEV, G.A.; SHAROV, A.N.

Biological properties of the strain of foot-and-mouth disease viruses of the SAT-1 type. Veterinariia 41 no.5:25-27, May '64.
(MIRA 15:3)

1. Gosudarstvennyy nauchno-kontrol'nyy institut veterinarnykh preparatov.

SALAZKIN, A.I.; DUTSENTEBEVA, E.P.

Plankton in the floodplain bodies of water of the lower Ob' and
lower Irtysh Rivers and some characteristics of its development.
Izvest. zhur. 44 no.6:818-825 '65. (MIRA 18:10)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut czernogo i
rasshnogo rynnogo khozyaystva, leningrad.

SALAZKIN, A.A.

Development of the fauna in humified lakes of Tyumen'
Province. Zool.zhur. 44 no.11:1602-1609 '65.

(MIRA 18:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut
ozernogo i rechnogo rybnogo khozyaystva, Leningrad.

SALAZAR, E.A., Cond Tech Sci--(diss) "Certain problems of
press problems", 1958. 23 pp with graphs (Min of Higher Education USSR. Los Inst-
of Chemical Machine-Building), 150 copies (RN, 49-56,124)

MARTYNOV, V.F.; SALAZKIN, A.A.

Distribution of the mollusk *Bithynia leachi* in Western Siberia.
Zool.zhur. 41 no.1:135-138 Ja '62. (MIRA 15:4)

1. Agricultural Experimental Station of Khanty-Mansiysk, and
Oz-Tazov Branch of the All-Union Research Institute of Lake and
River Fishery Management.
(Siberia, Western-Mollusks)

SALAZKIN, K. A.

PHASE I BOOK EXPLOITATION

SOV/4419

Spravochnik po mashinostroitel'nyim materialam, tom 4: Nemetallicheskiye materialy (Handbook on Machine-Building Materials, Vol. 4: Nonmetallic Materials) Moscow, Mashgiz, 1960. 723 p. Errata slip inserted. 26,000 copies printed.

Ed.: G.I. Pogodin-Alekseyev, Doctor of Technical Sciences, Professor; Ed. of this vol.: A.N. Levin, Doctor of Technical Sciences, Professor; Ed. of Publishing House: V.I. Rybakova, Engineer; Tech. Ed.: T.F. Sokolova; Managing Ed. for Information Literature (Mashgiz): I.M. Monastyrskiy, Engineer.

PURPOSE: This book is intended for machine-building and construction engineers, architects, and other persons interested in the properties of building materials.

COVERAGE: This is the fourth of a 4-volume Handbook on Machine-Building Materials. Volume 4 discusses nonmetallic materials suitable for use in machine building and in other constructional applications. Textile, wood, plastic, ceramic, rubber, and glass materials and laminates of these materials are reviewed and data on their physical and mechanical properties are listed. No personalities are mentioned. References follow individual chapters.

Card 1/15

Handbook on Machine-Building Materials (Cont.)

SOV/4419

Grading of lumber materials	58
Pressed-wood bearings	66
Toothed gears	67
Ch. III. Paper, Paperboard, and Paper Products (Mudrik, Kh.I., Candidate of Technical Sciences)	69
General information	69
Classification and nomenclature of paper and paperboard	69
Packing and marking of commercial-size paper, paperboard, and fiberboard	95
Methods for testing the properties of paper and paperboard	96
Ch. IV. Plastics (Levin, A.N., Professor, Doctor of Technical Sciences; S.M. Perlin, Engineer; I.Ya. Klinov, Professor, Doctor of Technical Sciences; K.A. Salazkin, Candidate of Technical Sciences; and N.I. Basov, Candidate of Technical Sciences)	102
General information and classification	102
Guides to the selection and use of plastics	104
Physical properties	105
Mechanical properties	109

Card 3/15

Handbook on Machine-Building Materials (Cont.)

SOV/4419

Dielectric properties	110
Methods of determining the main physical, mechanical, and dielectric properties	110
Technical properties of compression-molding and casting materials	112
Compression-molding and casting materials based on high-molecular compounds prepared by polycondensation and addition polymerization	114
Compression-molding powders based on phenol-aldehyde resins	115
General-purpose compression-molding powders	116
Compression-molding powders with high electric-insulating properties	119
Special-purpose compression-molding powders	121
Compression-molding materials with improved mechanical strength, heat-resistance, and friction properties	124
Compression-molding powders based on phenol-aldehyde resins and fibrous fillers	125
Water- and acid-resistant electric-insulating compression-molding materials: "fenolit" and "dekorroxit" [phenol-formaldehyde resin with polyvinyl chloride and hydrophobic organic and mineral fillers]	129
Materials of the faolite type with high chemical resistance, based on phenol-formaldehyde resins and asbestos	132

Card 4/15

Handbook on Machine-Building Materials (Cont.)

SOV/4419

Laminated plastics	133
Compressed molding materials based on urea- and melamine- formaldehyde resins and cellulose filler	156
Decorative laminated plastics	157
Casting materials based on polyamide resins	158
Heat-insulating plastics	161
Foam plastics	161
"Mipor" [thermosetting urea-formaldehyde resins with foaming agent containing catalyst for hardening]	162
Porous materials made from polyester resins and isocyanates - "porolon"	163
Polyethylene materials	163
"Ftoroplasts" [halogenated ethylene plastics]	165
Materials based on polyvinyl chloride	168
Polystyrene and polyacrylic materials and their copolymers	172
Application of polystyrene	173
The effect of various factors on the properties of polystyrene	173
Polyacrylic materials	177
The effect of various factors on the properties of methyl methacrylate	177

Card 5/15

Handbook on Machine-Building Materials (Cont.)

SOV/4419

Albuminous [polypeptide] materials and materials made from cellulose esters	182
Materials made from cellulose esters	182
Polyisobutylene and its compositions	188
Applications and methods of working polyisobutylenes	191
Polyurethanes	191
Epoxy resins	198
Polypropylene	200
Films	200
Films obtained from polymers and copolymers of vinyl chloride	200
Films obtained from polyolefins	201
Organosilicon compounds	206
High molecular organosilicon compounds	207
Polyester resins	207
Asbestos vinyl	219
General information	219
Physical and mechanical properties of asbestos vinyl	220
The production of asbestos vinyl	222
The technique of applying asbestos vinyl	222
Safety precautions and fire-prevention measures	223

Card 6/15

Handbook on Machine-Building Materials (Cont.)

SOV/4419

Methods of testing and quality control of coatings	224
Combined coatings	224
Asphalt-pitch materials	224
Plastic monoblocs for storage batteries	225
The effect of various factors on the physical, mechanical, and dielectric properties of plastics	226
Ch. V. Rubber Materials (Yashunskaya, F.I., Candidate of Technical Sciences; P.I. Lokhina, Engineer; F.I. Sokolovskaya, Candidate of Technical Sciences; V.A. Lepetov, Candidate of Technical Sciences; and B.I. Gorelik, Candidate of Technical Sciences)	233
General information	233
Tires	258
Pneumatic tires	258
Automobile and motorcycle tires	258
Principal parts of tires	259
Markings and size of tires	263
Standards of guaranteed mileage for tires	267
Disbalance of tires	267

Card 7/15

OSITOV, V.A.; SALAZKIN, K.A.; ZAV'YALOV, V.A.

Investigating the retarding properties of fibrous compression molding materials. Trudy MIKID: 27:36-47 '64.

(MIRA 18:8)

ZAKHAROV, I.I.; SALASHIN, N.A.

Application of high-frequency currents for the preliminary plastication in the injection molding of thermoplastics. Trudy MIKHM
2,150-137 '84. (MIRA 18:8)

SALAZKIN, K.A.; REUTOV, S.V.

Design of machinery for vacuum forming. Trudy MIKHM 27:158-166 '64.
(MIRA 18:8)

SALAZKIN, M. A.

"Classification, Clinical Aspects, Diagnosis, and Surgical Treatment of Tumors Situated Simultaneously in the Posterior Cranial Depression and the Cervical Division of the Spinal Canal." Cand Med Sci, Inst of Neurosurgery, Acad Med Sci USSR, Moscow, 1953. (RZhBiol, No 2, Sep 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

SALAZKIN, M.A. (Moscow)

Classification, clinical aspects, and diagnosis of tumors passing through the foramen occipitale. Vopr. neirokhir. 17 no.6:22-27 M-D '53. (MLRA 6:12)

1. Iz Instituta neyrokhirurgii im. akademika N.N.Bardenko Akademii meditsinskikh nauk SSSR.

(Occipital bone--Tumors)

SALAZKIN, M.

"Retarded and controlled pneumoencephalography." IA.I.Geinisman.
Reviewed by M.Salazkin. Vop. neirokhir. 18 no.5:61-63 S-0 '54.
(ENCEPHALOGRAPHY) (MIRA 7:11)
(GEINISMAN, IA.I.)

~~SALAZKIN, M.A.~~

Differential diagnosis of tumors of the occipital foramen from arachnoiditis of the posterior cranial fossa and of the cervical fragment of the spinal cord. Vop. neirokhir. 19 no.1:28-32 Ja-F '55. (MLRA 8:2)

1. Iz Nauchno-issledovatel'skogo otdela Trudovogo Krasnogo Znameni Instituta neyrokhirurgii imeni akad. N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(BRAIN, neoplasms,

differ. diag. of tumors passing through occipital foramen from arachnoiditis of posterior cranial fossa & cervical spinal cord)

(ARACHNOI, diseases,

arachnoiditis, differ. diag. of posterior cranial fossa & cervical arachnoiditis from tumors passing through occipital fossa)

SALAZKIN, M.A.

Treatment of focal suppurative encephalitis by combined
intramuscular and intracarotid injections of antibiotics.

Vop.neirokhir. 19 no.6:33-37 N-D '55. (MLRA 9:1)

(ENCEPHALITIS, therapy,
antibiotics, intramusc. & intracarotid admin.)

(ANTIBIOTICS, therapeutic use,
encephalitis, intramusc. & intracarotid admin.)

SALAZKIN, M.A.

Surgery in mixed forms of cerebral edema. Vop.neirokhir. 20 no.5:
24-29 S-0 '56. (MIRA 9:11)

1. Iz Nauchno-issledovatel'skogo ordena Trudovogo Krasnogo Znameni
instituta neyrokhirurgii imeni akad. N.N.Burdenko akademii meditsin-
skikh nauk SSSR.

(HYDROCEPHALUS, surgery,
(Rus))

SALAZKIN, M. A., kand. med. nauk (Moskva)

Changes in the cerebrospinal fluid pressure and its protein content in tumors of the hypophysis. Vop. neurokhirurgii no.3: 51-53 '62. (MIRA 15:7)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni N. N. Burdenko AMN SSSR.

(PITUITARY BODY--TUMORS) (PROTEINS)
(CEREBROSPINAL FLUID)

SALAZKIN, M.A., kand. mod. nauk (Moskva)

Age and sex of patients with hypophysial tumors. Vop.
neirokhir. 27 no.2:51-52 Mr.-Ap '63. (MIRA 17:2)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo
Znameni Institut neyrokhirurgii imeni akademika N.N.
Burdenko AMN SSSR (dir. -- prof. B.G. Yegorov).

SALAZKIN, M.A., kand. med. nauk (Moskva)

Quantitative correlations of hypophyseal tumors of different
histological structure. Vop. neirokhir. 27 no.5:48-50 S-0 '63.
(MIRA 17:5)

1. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni
institut neyrokhirurgii imeni N.N. Burdenko (dir. - prof. B.G.
Yegorov) AMN SSSR.

88729

S/190/61/003/001/010/020
B119/B216

158510

AUTHORS: Korshak, V. V., Vinogradova, S. V., Valetskiy, P. M.,
Salazkin, S. N.

TITLE: Heterochain polyesters. XXXI. On the chemical properties
of polyarylates

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 1, 1961, 72-80

TEXT: The authors point out the scarcity of publications on the chemical properties of polyarylates. The present study was undertaken with a view to investigating the possibilities of chemical degradation of polyarylates of aromatic dicarboxylic acids, their gasoline and oil resistance, resistance to dilute and concentrated acids and bases, oxidating agents and various organic substances. Polyarylates of 2,2-di-(4-hydroxyphenyl)-propane and terephthalic acid (TD) and isophthalic acid (ID), respectively, were used for the tests. TD and ID were prepared by equilibrium polycondensation in a high-boiling solvent. For comparison, ID prepared by emulsion polymerization was also used. The following

Card 1/3

33727

Heterochain polyesters. XXXI. On the chemical.. S/190/61/003/001/010/020
B119/B216

tests were carried out: To test the destructive effect of isophthalic acid, its acid chloride and 2,2-di-(4-hydroxyphenyl)-propane on ID and that of 2,2-di-(4-hydroxyphenyl)-propane on TD, the substances were added to varying amounts of the polymer in ditolyl methane and heated to 220°C for 3 hr in a stream of N₂. The destructive effect of m-cresol on TD and ID was also tested (0.5% m-cresol solution of polyacrylate was heated to 85-183°C). In further tests, TD and ID were heated for 3 hr at 100°C (or lower, if the boiling point was lower) in ethyl alcohol, methylethyl ketone, dioxane, tetrahydrofuran, n-heptane, benzene, p-xylene, N,N-dimethyl formamide, methylene chloride, chloroform, carbon tetrachloride, tetrachloro ethylene, tetrachloro ethane and chloro benzene. Gasoline and oil resistance was determined by the method described in Ref. 18. Results: TD and ID are degraded by 2,2-di-(4-hydroxyphenyl)-propane, isophthalic acid and m-cresol, but not by isophthalic acid chloride. Degradation in m-cresol proceeds according to the mechanism of alcoholysis. The authors calculated the rate constant of the pseudo-monomolecular degradation reaction. ID prepared by emulsion polymerization was affected much more severely than ID prepared by equilibrium polymerization in a high-boiling solvent. TD and ID are resistant to

Card 2/3

88729

3/190/61/003/001/010/020

Heterochain polyesters. KXII. On the chemical... B119/B216

organic solvents, benzene and oil. ID is resistant to the usual dilute and concentrated acids as well as to NaOH and H_2O_2 . Concentrated H_2SO_4 and concentrated and dilute HNO_3 cause decomposition. Mention is made of a work by the first-mentioned author in collaboration with N. I. Bekasova and V. A. Zaryatina. There are 5 figures, 5 tables, and 18 references: 14 Soviet-bloc and 4 non-Soviet-bloc.

ASSOCIATION: Institut elementov anicheskikh soyedineniy AN SSSR
(Institute of Elemental Organic Compounds, AS USSR).
Moskovskiy khimiko-tekhnologicheskii institut im. D. I.
Mendeleeva (Moscow Institute of Chemical Technology imeni
D. I. Mendeleev)

SUBMITTED: June 8, 1960

Card 3/3

30982
S/190/62/004/003/002/023
3110/B144

15 8110
AUTHORS:

Korshak, V. V., Vinogradova, S. V., Salazkin, S. N.

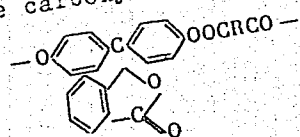
TITLE:

Heterochain polyesters. XXXIII. Polyarylates on phenolphthalein base

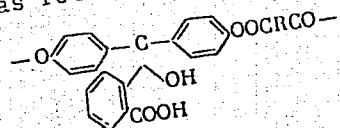
PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 4, no. 3, 1962, 339-344

TEXT: Homogeneous and mixed polyarylates (I) on phenolphthalein base were synthesized, and the effect of the initial compound structure on their properties was examined. The authors hoped to obtain a polymer which would be well soluble by virtue of the large phenolphthalein side groups and which would have a sufficiently high softening temperature owing to the polar group in the side group. The lactone group was to be modified to reactive carboxyl and hydroxyl groups as follows:



into

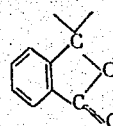
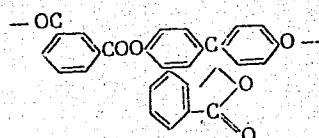


Card 1/3

S/190/62/004/003/002/023
B110/B144

Heterochain polyesters...

The properties of I are dependent on the structure of the initial components. I of terephthalic acid show the highest softening temperatures, followed by I of isophthalic, adipic, and sebacic acid. Substituting "dian" or resorcin for half the phenolphthalein in I lowers the softening temperature. A softening temperature rise is probably due to the increase of chain interaction caused by the polar groups:



The decrease in packing density raises the solubility of I on phenolphthalein base as compared with I on "dian" base. I on phenolphthalein base and isophthalic acid base dissolves in methylene chloride, chloroform, tetrachloro ethane, tetrahydrofuran, cyclohexanone. The partial substitution of phenolphthalein for bivalent phenols raises solubility. Films obtained from 5 % solutions of I with phenolphthalein and terephthalic acid retain

Card 2/3

Heterochain polyesters...

S/190/62/004/003/002/023
B110/B144

> 50 % of their strength at 180°C. Amorphous structure of most of I on phenolphthalein base was established by X-ray structural analysis. Thanks are due to the teams of laboratoriya fiziki polimerov (Laboratory of Polymer Physics) and laboratoriya rentgenostrukturnogo analiza (Laboratory of X-ray Structural Analysis) for thermodynamic and X-ray analyses. There are 3 tables and 17 references: 13 Soviet and 4 non-Soviet. The two references to English-language publications read as follows: A. Conix, Industr. and Engng. Chem., 51, 147, 1959; W. M. Eareckson, J. Polymer Sci., 40, 399, 1959.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR
(Institute of Elemental Organic Compounds AS USSR)

SUBMITTED: April 24, 1961

Card 3/3

SALAZKIN, S. N.

30358
S/131/62/000/001/002/006
B145/B110

15812

AUTHORS:

Korshak, V. V., Akutin, M. S., Vinogradova, S. V.,
Rodivilova, L. A., Valetskiy, P. M., Lebedeva, A. S.,
Salazkin, S. N.

TITLE:

Polyarylates - new thermostable polymers

PERIODICAL:

Plasticheskiye massy, no. 1, 1962, 9-13

TEXT: A survey of the properties of polyarylates is given. They are best synthesized from bifunctional phenols and dicarboxylic acid chlorides. Some of the synthesized polyarylates and their softening temperatures are given in Table 1. The great number of rings in the polymer ensure high resistance to most organic solvents as well as to gasolines and oils. At room temperature, the polyarylate MA (ID) is stable against H_2O_2 , dilute and concentrated caustic soda solutions, acetic acid, formic acid, nitric acid, and sulfuric acid. The effect of dilute and concentrated ammonia solutions considerably reduces the molecular weight of ID. Polyarylates on the basis of phenolphthalein are readily soluble in a number of solvents, which facilitates the production of foils. At the NIIPM it was

Card 1/5

30358
S/131/62/000/001/002/006
B145/B110

Polyarylates - new thermostable ...

established that the polyarylates TA (TD) and ID withstand high temperatures. Decomposition increases with rising temperature, at first slowly and then sharply at about 400°C. The oxidation of ID sets in at 250°C and proceeds slowly. Measurement of breakdown voltage, temperature dependence of $\tan \delta$, dielectric constant, and volume resistivity for some polyarylates prove that they are better dielectrics than polyethylene terephthalate, polycarbonate, etc. Polyarylates have good mechanical properties at various temperatures. Working processes are being elaborated at present. Specimens of mixed polyarylates were obtained by pressure casting, the tensile strength of which reached 850 kp/cm². Specimens sprayed on metal showed an adhesion to metal of 75 to 150 kp/cm². Work is also in progress on polyarylates with double bonds and free functional groups. They might be used as a basic material for the production of varnishes, glass, glass-reinforced plastics, and foam plastics. There are 5 figures, 6 tables, and 5 Soviet references.

Table 1. Softening temperature of polyarylates of different structures.
Legend: (1) polyarylate; (2) structure of the chain link; (3) softening temperature in °C; (4) TD; (5) ID; (6) TG; (7) IG; (8) TR; (9) IR; (10) TF; (11) IF; (12)-(14) ITD; (15) IDR; (16) TDR; (17) IFD; (18) IAD; * the

Card 2/5

Polyarylates - new thermostable ...

33854

3/17/62/000/001/002/006

2:15/3110

molecular ratio of the initial dicarboxylic acid chlorides related to 1 mole of diol is given in parentheses; * the molecular ratio of the initial diols related to 1 mole of dicarboxylic acid chloride is given in parentheses.

Card 3/5

S/062/62/000/008/009/016
B101/B180

AUTHORS: Korshak, V. V., Vinogradova, S. V., Salazkin, S. N., and Sidorov, T. A.

TITLE: Production of polyaryls based on phenol phthalein by inter-phase polycondensation

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh nauk, no. 8, 1962, 1416-1423

TEXT: This is the 47th report on heterochain polyesters. Interphase polycondensation of phenol phthalein (P) with chlorides of dicarboxylic acids yielded polymers of low intrinsic viscosity, $[\eta]$. Reacting P with isophthalic acid in this way in p-xylol solution, at initial reactant concentrations of 0.1 mole/l, with 2M NaOH per M phenol phthalein, resulted in $[\eta] \leq 0.23$ (in tricresol) and yields of up to 80%. Higher alkaline concentrations reduced both $[\eta]$ and yield. Nor did an emulsifier (Nekal) or catalyst (triethylbenzyl ammoniumchloride) cause an appreciable increase in $[\eta]$. Polycondensates from P and terephthallic acid (T), and mixed polycondensates from P, 4,4'-dihydroxydiphenylpropane

Card 1/3

Production of polyaryls based ...

S/062/62/000/008/009/016
B101/B180

(Dian) and I or T all had a low $[\eta]$ (0.26-0.32). $[\eta]$ was lower still (0.12-0.16) when the dichlorides of I and T were totally or partially replaced by fumaryl dichloride, due to the slight hydrolysis caused by the latter. These results are attributed to the slow rate of the tautomeric transformation of P. In alkaline solution it is assumed that there is equilibrium between the quinoid and the lactone forms. The chloride of the dicarboxylic acid only reacts with the lactone. Since transition from quinoid to lactone occurs slowly, hydrolysis of the acid chloride sets in, and the molecular weight remains low. This is supported by the absence of a band characterizing the quinoid structure at 1680 cm^{-1} in the IR spectra of the polycondensates. The 1300 cm^{-1} band, attributed by S. Lo Elisabeth to the quinoid form (Industr. and Engng. Chem., 52, 312 (1960)), was ascribed to the residue of I, since it was also observed in the polycondensate of Dian and I. The doublet $1710\text{-}1760\text{ cm}^{-1}$ is attributed to the different bonds of the carbonyl groups (ester and lactone bonds). There are 2 figures and 4 tables.

ASSOCIATION: Institut elementoorganicheskikh soedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences USSR)

Card 2/3

Production of polyaryls based ...

S/062/62/000/008/009/016
B101/B180

SUBMITTED: February 17, 1962

Card 3/3

KNYAZEVA, T.S.; KORSHAK, V.V.; AKUTIN, M.S.; KULEVA, M.M.; VINOGRADOVA, S.V.;
RODIVILOVA, L.A.; NEDOPEKINA, T.P.; VALETSKIY, P.M.; MOROZOVA, S.A.;
SALAZKIN, S.N.

Possibility of using various polyarylates as insulating film
materials. Plast. massy no.12:37-40 '62. (MIRA 16:1)
(Acids, Organic) (Polymers) (Insulating materials)

S/0190/64/006/008/1403/1406

ACCESSION NR: AP4043777

AUTHOR: Vinogradova, S. V., Korshak, V. V., Salazkin, S. N., Bereza, S. V.

TITLE: Heterocyclic polyesters. LX. Polyarylates based on Phenolphthalein anilide

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 8, 1964, 1403-1406

TOPIC TAGS: polyester, polyarylate, phenolphthalein, phenolphthalein anilide, heterocyclic polyester

ABSTRACT: Using their method of equilibrium condensation described in Vy*sokomolekulyarny*ye soyedineniya 4, 339, 1962, with chlorodiphenyl in place of ditolylmethane as the solvent, the authors prepared polyarylates of 4,4'-dipenyldicarboxylic, terephthalic, isophthalic, diphenic, fumaric and sebacic acids with phenolphthalein anilide as the base. The phenolphthalein anilide was prepared by a procedure described by Albert (Berichte der deutschen chemischen Gesellschaft, 26, 3077, 1893); and technique of interphase polycondensation, which was also employed consisted of 1. adding a 0.1 benzene solution of chloroanhydride of the dicarboxylic acid to a 0.1 alkaline solution of phenolphthalein anilide, containing 0.9-1.0% of nekai, 2. thoroughly mixing for 20 min, and 3. precipitating the polymer with methanol, washing with methanol and hot water and drying in a vacuum at 80C.

Card 1/2

ACCESSION NR: AP4043777

The properties of the polymers are discussed, the most significant being their ability to form transparent heat-resistant films withstanding temperatures of up to 250C. "L. L. Reshetnikova took part in the experimental work." Orig. art. has: 5 tables and 1 structural formula.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Organo-Metallic Compounds, AN SSSR).

SUBMITTED: 13Aug63

SUB CODE: OC

NO REF SOV: 003

OTHER: 001

Card 2/2

L 10684-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM

ACCESSION NR: AP4045419

S/0190/64/006/009/1555/1558

AUTHOR: Vinogradova, S. V.; Korshak, V. V.; Salazkin, S. N.; Bereza, S. V.

TITLE: Heterochain polyesters. XII. Synthesis of phenolphthalein-anilide polyarylates by the method of interphase polycondensation

SOURCE: Vy*sokomolekulyarny*ye soedineniya, v. 6, no. 9, 1964, 1555-1558

TOPIC TAGS: polyester, heterochain polyester, interphase polycondensation, polyaryl ester, phenolphthalein polymer, phenolphthalein anilide polyester, dicarboxylic acid, terephthalic acid

ABSTRACT: 2-phenyl-3,3-bis-(4-hydroxyphenyl)phthalimidine (phenolphthalein anilide), was substituted for phenolphthalein in a perfected process of interphase polycondensation with the chloroanhydride of terephthalic acid, to obtain polyarylates with higher molecular weights. The two-phase polycondensation was conducted in an emulsion of an aqueous solution of the phenolphthalein anilide and a solution of the chloroanhydride in p-xylene (n-heptane, chloroform, benzene, methylene chloride or tetrachloroethane) in the presence of NaOH and an emulsifier. The effect of the amount of NaOH, a particular organic solvent, the amount of the emulsifier, additions of triethylbenzylammoniumchloride, and the concentrations of the reactants on the yields (climbing beyond 90% of theory) and

Card 1/2

L 10684-65

ACCESSION NR: AP4045419

reduced viscosity of the product was investigated. The optimum procedure, yielding a product with a reduced viscosity above 1.0 in tricresol, consists of adding a 0.1 solution of the chloroanhydride (in benzene, methylene chloride or chloroform) within 8-10 min. to a 0.114 alkaline solution of the anilide (2.2 mol NaOH per 1.0 mol of anilide) containing 0.9% nekal (emulsifier), with subsequent mixing for another 20 min. Orig. art. has: 4 tables and 2 figures.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Metalloorganic Compounds, AN SSSR)

SUBMITTED: 13Aug63

ENCL: 00

SUB CODE: OC

NO REF SOV: 006

OTHER: 003

Card 2/2

SLONIMSKIY, G.L.; KORSHAK, V.V.; VINOGRADOVA, S.V.; KITATGORODSKIY, A.I.;
ASKADSKIY, A.A.; SALAZKIN, S.N.; BELAVTSEVA, Ye.M.

Physicochemical means of regulation of supermolecular structures
and mechanical properties of amorphous polyarylate F-1. Dokl.
AN SSSR 156 no. 4:924-925 Je '64. (MIRA 17:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.
2. Chlen-korrespondent AN SSSR (for Korshak).

RUZH, V.V.; RUZH, I.V.; RAIFOV, S.M.; ROSSIN, V.V.; RUZH, DOVA,
S.V.; SALAZHIN, S.H.

Chemical transformation of polymers. Part 18. Vysokom. soed. 6
no. 6: 924-926 Je '64 (RUZH 18:2)

L 52138-65 EPT(c)/EWP(j)/EWT(m)/T Pc-4/Pr-4 RM.

ACCESSION NR: AP5015289

UR/0286/65/000/009/0067/0067

AUTHORS: Korshak, V. V.; Vinogradova, S. V.; Salazkin, S. N.; Vygodskiy, Ya. S.

TITLE: A method for obtaining polyarylates. / Class 39, No. 170661

25
B

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 67

TOPIC TAGS: polyarylate, diphenyl chloride, dicarboxylic acid, phenol, polymer

ABSTRACT: This Author Certificate presents a method for obtaining polyarylates by the condensation of chloranhydrides of dicarboxylic acids with two-atom phenols in solutions of a high boiling point solvent. To increase the molecular weight of the obtained polymer, to lower the amount of solvent used, and to simplify the technique of separating the polymer, diphenyl chloride is used as the high boiling point solvent.

ASSOCIATION: none

SUBMITTED: 13Aug62

ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 000

Card 1/1 *rvb*

L 52134-65 EPF(c)/EPR/EWP(j)/EWT(m)/T Pc-4/Pr-4/Ps-4 RM/WW

ACCESSION NR: AP5015296

UR/0286/65/000/009/0068/0068

AUTHORS: Korshak, V. V.; Vinogradova, S. V.; Salazkin, S. N.; Genkina, G. K. ²⁹₁₃

TITLE: A method for obtaining uniform and mixed thermoplastic and thermoreactive polyarylates. Class 39, No. 170668 ₁₅

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 68

TOPIC TAGS: polyarylate, thermoplastics, chloranhydride, dicarboxylic acid, phenol, phenoltetrachlorophthalein

ABSTRACT: This Author Certificate presents a method for obtaining uniform and mixed thermoplastic and thermoreactive polyarylates based on chloranhydrides of dicarboxylic acids and 2-atom phenols. To obtain nonflammable and self-stopping polyarylates, phenoltetrachlorophthalein is used as the 2-atom phenol.

ASSOCIATION: none

SUBMITTED: 20Apr64

ENCL: 00

SUB CODE: OC

NO REF SOV: 000

OTHER: 000

Card 1/1 *mb*

A L 10189-66 EWT(m)/EWP(j)/T/ETC(m) WW/RM

ACC NR: AP5028488 SOURCE CODE: UR/0286/65/000/020/0066/0066

INVENTOR: Korshak, V. V.; Vinogradova, S. V.; Salazkin, S. N. ^{44,55} 38
B

ORG: none

TITLE: Preparative method for homo- and co-polymeric ^{44,55} polyaryl esters. Class 39, No. 175654 ¹⁵

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1965, 66

TOPIC TAGS: polyester plastic, heat resistant plastic, ^{44,55} solubility, ester, polyaryl plastic

ABSTRACT: An Author Certificate has been issued for a preparative method for heat-resistant and soluble homo- and co-polymeric polyaryl esters. The method involves polycondensation of dicarboxylic acid chlorides with bisphenols, viz., alkyl derivatives of 3,3-bis(4-hydroxyphenyl)phthalimidine, such as the 2-ethyl- or 2-allyl derivative. [SM]

SUB CODE: 0711/ SUBM DATE: 23Nov64/ ATD PRESS: 4158

Card 1/2 UDC: 674.673.002.2

L 1898-66 EWT(m)/EPF(c)/EWP(j)/T RM

ACCESSION NR: AP5021600

UR/0286/65/000/013/0070/0070
678.673

AUTHOR: Korshak, V. V.; Vinogradova, S. V.; Salazkin, S. N.

TITLE: Preparative method for polyaryl esters. Class 39, No. 172492

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 70

TOPIC TAGS: polymerization, heat resistant polymer, polyaryl ester

ABSTRACT: An Author Certificate has been issued for a preparative method for polyaryl esters based on bisphenols and 4,4'-diphenylphthalide dicarboxylic acid chloride [sic]. [SM]

ASSOCIATION: none

SUBMITTED: 08Jun64

ENCL: 00

SUB CODE: MT, GC

NO REF SOV: 000

OTHER: 000

ATD PRESS: 4088

Card 1/1

L 15323-66 EWT(m)/EWP(1)/T/ETC(m)-6 WW/RM
 ACC NR: AP6000978 (A) SOURCE CODE: UR/0286/65/000/022/0058/0058

AUTHORS: Korshak, V. V.; Vinogradova, S. V.; Salazkin, S. N.; Bereza, S. V.

ORG: none

TITLE: A method for obtaining homogeneous and mixed polyarylates. Class 39, No. 176401

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 58

TOPIC TAGS: polymer, polycondensation, phenol, polyaryl plastic, plastic

ABSTRACT: This Author Certificate presents a method for obtaining homogeneous and mixed polyarylates, an interphase polycondensation of dihydroxyphenols and chloro-anhydrides of dicarboxylic acids. To increase the variety of thermostable and soluble polyarylates, the imide of phenolphthalein-3,3-bis-(4-oxyphenyl)-phthalimide is used as the dihydroxyphenol.

SUB CODE: 11/07/ SUBM DATE: 27Jun63

Card 1/1 SC

UDC: 54-126:547.461.2'053
 547.633.6

L 16103-66 EWP(j)/EWT(m) RM/WW
ACC NR: AP6003250 (A)

SOURCE CODE: UR/0020/65/165/006/1323/1324

AUTHOR: Slonimskiy, G. L.; Korshak, V. V. (Corresponding member AN SSSR);
Vinogradova, S. V.; Kitaygorodskiy, A. I.; Askadskiy, A. A.; Salazkin, S. N.;
Belavtseva, Ye. M.

51
53

ORG: Institute of Hetero-organic Compounds, Academy of Sciences, SSSR (Institut
elementoorganicheskikh soyedineniy Akademii nauk SSSR)

144133 B

TITLE: Difference in supramolecular structures of amorphous polyarylates obtained
by interfacial polycondensation and high-temperature polycondensation in homo-
geneous media

SOURCE: AN SSSR. Doklady, v. 165, no. 6, 1965, 1323-1324, and insert facing
p. 1324

TOPIC TAGS: polyaryl plastic, interfacial polycondensation, polycondensation,
polymer, impact strength, tensile strength

ABSTRACT: Electron-microscopic and mechanical studies were carried out on special-
ly synthesized types of F-7 polyarylates (products of polycondensation of tereph-
thaloyl chloride with phenolphthalein anilide). The results fully confirmed the
hypothesis that in interfacial polycondensation, when the polymer is formed at the
interface of two liquid phases in which it is insoluble, the supramolecular
Card 1/2

2

UDC: 541.64

L 16103-66

ACC NR: AP6003250

2
structure should be globular, whereas in homogeneous polycondensation in a solvent medium, the structure of the polymer is predominantly fibrillar. The mechanical properties were consistent with these observations: polyarylate F-7¹⁵ prepared by polycondensation in a homogeneous medium, had a greater impact and tensile strength and higher softening point than polyarylate F-7-M, synthesized by interfacial polycondensation. This fact is particularly notable, since it shows that an amorphous polymer of the same chemical structure can have different softening points depending upon the supramolecular structure. Orig. art. has: 1 table.

SUB CODE: 11,07/ SUBM DATE: 14Jul65 / ORIG REF: 004

Card 2/2 *L. N.*

L 21421-66 EWT(m)/EWP(j)/T/ETC(m)-6 WVV/RM

ACC NR: AP6009796

SOURCE CODE: UR/0062/66/000/002/0308/0314

AUTHOR: Vinogradova, S. V.; Salazkin, S. N.; Korshak, V. V.ORG: Institute of Heteroorganic Compounds, Academy of Sciences SSSR (Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR)TITLE: Heterochain polyesters. 62. Polyarylates from bisphenyldicarboxylic acids

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1966, 308-314

TOPIC TAGS: aromatic polyester, polyarylate, bisphenyl dicarboxylic acid, dihydric phenol, heat resistant polymer, polymer solubility, polymer film

ABSTRACT: The combination of high heat resistance and good mechanical properties with solubility in organic solvents was the purpose of this study of polyarylates (PA), synthesized from a dihydric phenol and a bicyclic dicarboxylic aromatic acid. 4,4'- (I) or 2,2'-bisphenyldicarboxylic (II) or combinations of (I) and (II) acids were used as the bicyclic acid component, and bisphenol-A, phenolphthalein, phenolphthalein anilide, "phenoldiphenol" [2,2'-bis-(4-hydroxybenzoyl)bisphenyl] or xylenolphthalein were used as the phenolic component. Nonmixed and mixed PA were synthesized by equilibrium condensation in a nitrogen stream, in "Sovol" solution (Sovol-chlorinated bisphenyl). Only the acid components, i.e., (I), (II), or terephthalic acid, were used to prepare mixed PA. It was found that PA from (I) have a higher softening temperature as compared with analogous polyterephthalates and are still

Card 1/2

UDC: 541.6+542.91

L 1421-66

ACC NR: AP6009796

soluble in organic solvents (exception: PA from bisphenol-A). This solubility makes it possible to use these PA for manufacturing films, fibers, and lacquer coatings. The dependence of the physical properties on the structure and composition of the PA obtained is discussed. Among other points it was noted that loose packing of polymer chains in phthaloyl or phthaloyl anilide derivatives is caused by the size of these side groups and the effect of the ortho-substitution in (II), which sharply decreases the softening temperature. Both nonmixed and mixed PA containing (I) can form mechanically strong films from solutions; such films retain their good mechanical properties at 290C. Orig. art. has: 1 figure and 5 tables.

[EN]

SUB CODE: 07, 11/ SUBM DATE: 19Sep63/ ORIG REF: 010/ OTH REF: 010/ ATD PRESS

4221

Cond 2/2 JLR

L 10071-57 FTT(h)/TMP(j) IJP(c) RM

ACC NR: AP6029923 (A) SOURCE CODE: UR/0413/66/000/015/0089/0029

INVENTORS: Korshak, V. V.; Vinogradova, S. V.; Valetskiy, P. M.; Salazkin, S. N.; Mironov, Yu. V.

ORG: none

TITLE: Method for obtaining polyesters. Class 39, No. 184,447

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 89

TOPIC TAGS: polyester plastic, polyglycol compound, polymer cross linking, polymer, glycol, oligomer

ABSTRACT: This Author Certificate presents a method for obtaining polyesters after the method described in Author Certificate No. 140986. To prevent a premature cross-linking of the polymer and to increase the solubility and fusibility of the latter, the process is carried out in two stages. The first stage consists of the interaction between the chloroanhydrides of dicarboxylic acids and dihydroxy phenols; the second stage is of the reaction of the oligomers, obtained in the first stage, with aromatic (or cycloaliphatic) glycols.

SUB CODE: 0711/ SUBM DATE: 10Jan64

Card 1/1

UDC: 678.673

ACC NR: AP6029050

(A)

SOURCE CODE: UR/0413/66/000/014/0080/0080

INVENTORS: Korshak, V. V.; Vinogradova, S. V.; Salazkin, S. N.

ORG: none

TITLE: A method for obtaining polyarylates. Class 39, No. 183935 [announced by Institute of Organo-elemental Compounds AN SSSR (Institut elementoorganicheskikh soyedineniy AN SSSR)]

SOURCE: Izobret prom obraz tqv zn, no. 14, 1966, 80

TOPIC TAGS: polyaryl ~~phenol~~ ^{dicarboxylic} dicarboxylic acid, phenol

ABSTRACT: This Author Certificate presents a method for obtaining polyarylates based upon chloranhydrides of dicarboxylic acids and bis-phenols. To impart noncombustibility to the polyarylates, 2- β -chloroethyl-3,3-bis(4-hydroxyphenyl) phthalimidine is used as bis-phenol.

SUB CODE: 11/

SUBM DATE: 29May65

UDC: 678.673152152

Card 1/1

SALAZKINA, S. S. (Deceased), SOLOV'YEV, L. T. (Deceased), YUR'YEV, V. A., LOPATINA, N. I.,
OFITSEROVA, V. N. (Deceased), KRYMSKAYA, V. M. and USHAKOVA, M. S.

"The Separation of Mixtures of Amino Acids by the method of Exchange Adsorption in Columns Filled With Synthetic Resins," an article included in the book "The Theory and Practice of the Application of Ion-Exchange Agents," edited by K. V. Chmukov and published by the AS USSR, 1955, 164 pp.

P/517/62/000/069/001/001
EO71/E451

AUTHORS: Olewicz, Emil, Salbert, Jerzy
TITLE: An investigation of structures formed on the decomposition of supercooled austenite using an electron microscope
SOURCE: Gliwice. Politechnika Slaska. Zeszyty naukowe. no.69. Mechanika. no.15. 1962. Mikroskop elektronowy, no.2. 75-83

TEXT: The effect of supercooling on the structures formed during isothermal decomposition of austenite was investigated using optical and electron microscopes and a low alloy steel (40HM) which contained: 0.44% C, 0.78% Mn, 0.37% Si, 0.010% P, 0.004% S, 1.16% Cr, 0.15% Ni and 0.10% Mo. Specimens (15 mm diameter and 15 mm length) machined from rods, were austenitized at 840°C for 25 minutes and transferred to a salt bath for isothermal treatment (700 to 380°C) for various periods, followed by water cooling. Metal replicas were prepared from polished specimens etched with a 2% HNO₃ in amyl alcohol. It was found that in the pearlitic transformation range from A₁ to 600°C,
Card 1/2

KHODZHAYEV, F.Sh.; SALBIYEV, Kh.B., red.

[Production ties between collective farms in Tajikistan]
Mezhkolkhozye proizvodstvennye svyazi Tadzhikistane.
Dushanbe, Dushanbinskii gos. in-t im. T.G.Shevchenko.
1962. 113 p. (MIRA 17:2)

SLĘBODZIŃSKI, Tadeusz; BIMEŁ, Jan; SALBUT, Daniel

Nitration of paraffins. Przem chem 41 no.1:18-20 Ja '62.

1. Katedra Technologii Organicznej II, Politechnika, Warszawa

PHASE I BOOZ REFINITATION

700/3308

Dravje Posavje Industrijskih Elektromotora, Zadar, 1956

Industrijska laboratorija "Prestit" održava na svojeglavoj industrijskoj laboratoriji u Zadru (Industrial Electricities Research) na 12. Konferenciji o Industrijskim Elektromotrima u Zadru, August 6-11, 1956) radovi, Kraljeva iz elektroničkim elementima, 1956. 230 p. No. of copies printed not stated. No contributors mentioned.

PURPOSE: This collection of reports promotes the use of electric and electronics devices in modernizing industrial plants. It is intended for management and technical personnel of Yugoslav industry.

COMPARISON: The collection contains papers prepared during the examination of industrial electronic specialists taken into Zakh (Krylgarsky) August 6-11, 1986. In these papers, the following problems were discussed: effects of automation on national economy, equipment used for automation of industrial processes, application of robot in modern industry, industrial television use or otherwise, in mechanism, and computers. In addition to the reports published in this collection, the following papers were presented at the conference:

Professor Dr. Josif Landoz, Electrical Engineering Department, Tallin University "Riikes with Radiation Chamber for Measurement of Total and Ionization Dose; Radiation as a Factor in Protection Against Ionizing Radiation"; Arseniy B. Shcherbakov, Solid-State Electronics Institute, Tallinn, "Utilization of Electrodes for Millimeter-Wave Rectification"; "Automatic Voltage Electrical Measurement System"; N. A. Kuznetsov, "Polar Substituted Anilines, Their Electrical and Luminescent Properties"; V. A. Kuznetsov, "Development of Scientific and Industrial Purposes"; and S. V. Vukobrat, Technical Institute of the Tallin Night Plant, "New Developments and Prospects of the Photo Night Plant".

TABLE OF CONTENTS

Belitskiy-Bukhar, *Sydney*, Engineer, Institute for Mechanical Technology, Zagreb. Cold Welling in Electrode Industry. This paper is an abstract from the Soviet periodical "Duroch-bony proizvodstvo", No. 3, 1956.

[illegible]

Albert, Vlado, Professor, Engineer, Electrical Engineering Department,
Sagreb University, Industrial Application of Tele-Vision
The author describes tubes and circuits of tele-vision systems
used for control of industrial processes. Data are & references,
all English.

Dolenz, Action, Electrical Engineering Department, Zagreb University.
Control and Regulation of Electric Drives in Rolling Mills
The author describes operating principles and diagnosis of
control and regulation equipment of American and German mills.

Kudrya, Ilya, Engineer, Electrical Engineering Department, Zagreb University. Electrical Modeling and Electronic Computers, model-
ling, and analog machines. There are 6 references; 4 English,
1 Czech, and 1 Soviet.

Conclusions

AVAILABLE: LIBRARY OF CONGRESS (TK7801.55 1956)

Card 7/7

104/rmj/rn.1
8-1-60

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																																																																																																																																	
PROCESSES AND PROPERTIES INDEX																																																																																																																																																											
Double potentiometer for measurement of temperatures. C. SALCRANU. Bull. sect. sci. acad. roumaine 14, 87-8(1931).—A variable voltage, tapped off from a potentiometer, is applied to a 2nd potentiometer, on which the e. m. f. of a thermocouple is balanced. Temps. between 0° and 300° can be measured to 0.2°. B. C. A.																																																																																																																																																											
ASB. S. L. A. METALLURGICAL LITERATURE CLASSIFICATION																																																																																																																																																											
<table border="1"> <tr> <td colspan="13">SECTION 1 - 1ST ORD. QAC</td> <td colspan="13">SECTION 2 - 2ND ORD. QAC</td> <td colspan="13">SECTION 3 - 3RD ORD. QAC</td> <td colspan="13">SECTION 4 - 4TH ORD. QAC</td> </tr> <tr> <td colspan="13">A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</td> <td colspan="13">A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</td> <td colspan="13">A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</td> <td colspan="13">A B C D E F G H I J K L M N O P Q R S T U V W X Y Z</td> </tr> </table>																																																				SECTION 1 - 1ST ORD. QAC													SECTION 2 - 2ND ORD. QAC													SECTION 3 - 3RD ORD. QAC													SECTION 4 - 4TH ORD. QAC													A B C D E F G H I J K L M N O P Q R S T U V W X Y Z													A B C D E F G H I J K L M N O P Q R S T U V W X Y Z													A B C D E F G H I J K L M N O P Q R S T U V W X Y Z													A B C D E F G H I J K L M N O P Q R S T U V W X Y Z												
SECTION 1 - 1ST ORD. QAC													SECTION 2 - 2ND ORD. QAC													SECTION 3 - 3RD ORD. QAC													SECTION 4 - 4TH ORD. QAC																																																																																																																				
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z													A B C D E F G H I J K L M N O P Q R S T U V W X Y Z													A B C D E F G H I J K L M N O P Q R S T U V W X Y Z													A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																																																																																																																				

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
CA Magnetic anisotropy of the naphthalene molecule Constantin Silceanu. <i>Bull. soc. sci. acad. roumaine</i> 16, 6-7 (1933).—The math. theory by which the magnetic anisotropy of the naphthalene mol. can be calcd. from its optical anisotropy, by the method used by Ramanadham, is outlined. The value is calcd. as 204×10^{-11}. W. W. Stiller																																																			
ASAC 11.6 METALLOGRAPHIC LITERATURE CLASSIFICATION																																																			

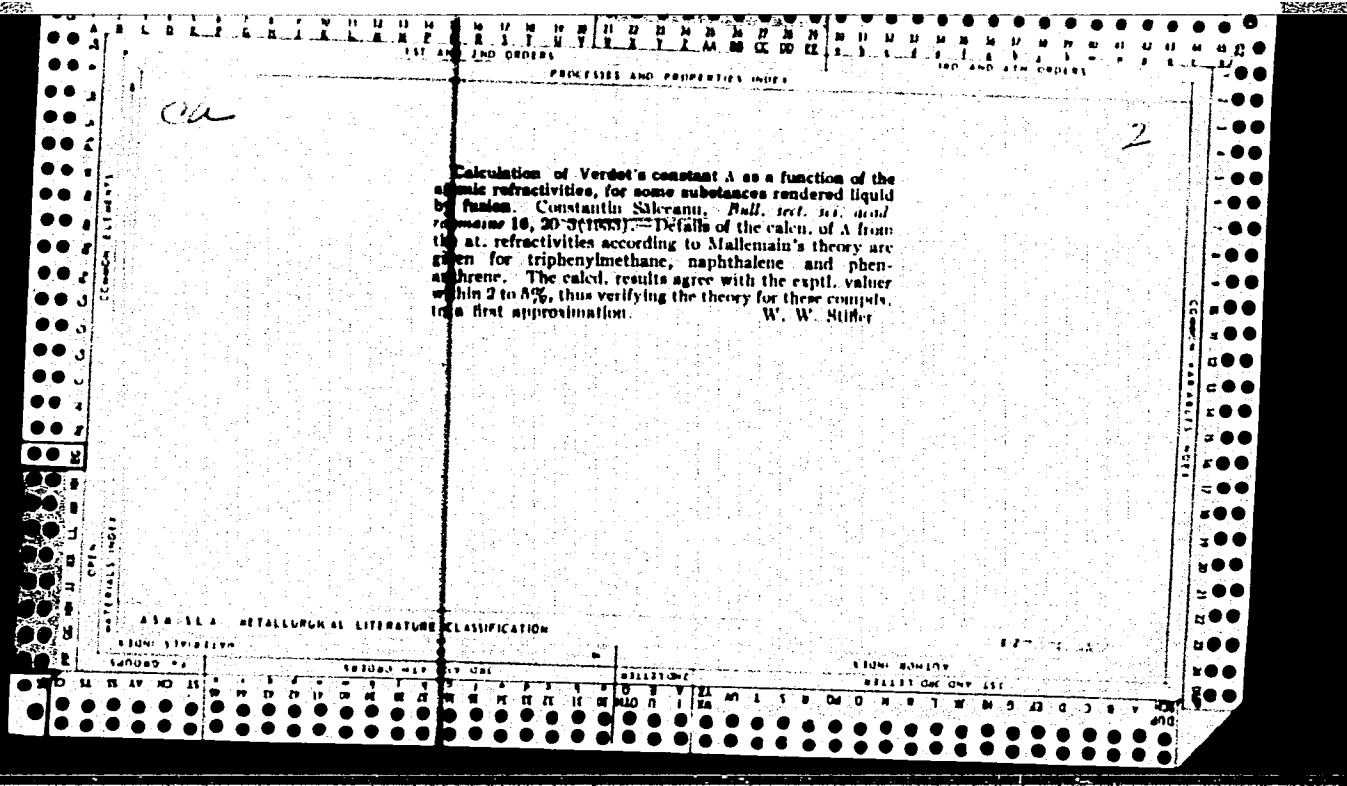
1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										MATERIALS INDEX																									
C A																										2																									
Method and experimental arrangement for measuring the indexes of refraction of substances in the fused state. Constantin Salceanu. <i>Bull. sect. sci. acad. roumaine</i> 16, 8-12(1933).—Measurements of the n of a liquid by means of a hollow prism may be in error because of lack of parallelism of the glass windows, etc. Methods of minimizing these errors are discussed and the math. theory of an interpolation method, for detg. the n of a given liquid in terms of the known ns of two others is developed. The exptl. arrangement described consists of an elec. furnace with suitable apertures in the sides, which fits onto the prism table of the spectrometer. An equilateral hollow brass prism, with Pyrex windows, fits into this furnace. W. W. Stiller																																																			
ASS. S. L. A. METALLURGICAL LITERATURE CLASSIFICATION																																																			

ca

2

The invariant of magnetic rotation for some organic substances rendered liquid by fusion. Constantin Sâlcănu. *Bull. soc. sci. acad. roumaine* 16, 13-15(1933).—According to Mallet's theory, the expression $A \cdot d / (n - 1)^2$, in which A is Verdet's const., n is the refractive index, and d is the density, should be invariant for any given substance and independent of its state. A table is given, showing the values of n , d and A for naphthalene from 84° to 180°, β -methylnaphthalene from 34° to 174°, triphenylmethane from 100° to 180°, and phenanthrene from 100° to 170°, with the corresponding value for $A \cdot d / (n - 1)^2$. β -Methylnaphthalene shows a progressive increase of about 5% for this invariant, but for the other 3 compds. it remains const. within 2%, thus confirming the theory, at least to a first approximation. W. W. Stiller

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
Measurements of the magnetic rotatory power on some fused organic substances. Constantin Salceanu. <i>Bull. sect. sci. acad. roumaine</i> 10, 16-19(1933).—Measurements of the magnetic rotatory power and the dispersion were made on several org. compds. for the 3 standard Hg lines. Values of Λ (the Verdet const.) and of Λ/d are given for α-methylnaphthalene from 10° to 184°. In this interval Λ/d is approx. const. with a mean value of 4.62×10^{-1}. Similarly for phenanthrene between 104° and 217°, Λ/d decreases gradually from 5.48 to 5.32×10^{-1}, and for benzyl, in the interval 100° to 204°, Λ/d decreases only from 2.60 to 2.58×10^{-1}. Some data are also given for the dispersion. The magnetic birefringence is a mol. phenomenon while the magnetic rotation is at. W. W. Stiller																																																			
ASACSLA METALLURGICAL LITERATURE CLASSIFICATION																																																			



1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
ed Verification of the law of rotatory magnetic dispersion for some organic substances rendered liquid by fusion. Constantin Sakreanu. <i>Bull. sect. sci. acad. roumaine</i> 16, 24-6(1933).--Mallema's general equation for magnetic rotatory dispersion can be verified indirectly by showing that the ratio of the rotatory magnetic dispersion to the dispersion due to elec. birefringence is equal to the inverse ratio of the corresponding wave lengths. The data for β-methylnaphthalene and phenanthrene do not satisfy this condition, and hence the law is inadequate. This is attributed to failure to consider the effects of the absorption bands in the ultra-violet. W. W. Stiller																										2																									
ASB SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			

CO

22

PROCESSES AND APPLICABLE DATA

Electrical properties of liquid hydrocarbons. C. Sal-
carnu and D. Gheorghiu. *Bul. soc. române fiz.* 35,
103-17 (1933).—S. and G. have tried to verify the conclu-
sion of Agnes (cf. C. A. 23, 2287) that detonation and
elec. cond. in the liquid phase of hydrocarbon fuels are
related. They conclude that for the liquid phase there is no
relation. The antiknock power of a series of the hydro-
carbon fuels is detd. The conclusion of Agnes is assumed
to be due to chance or to impure materials, since his work
was not extended to many pure compds. and in no case
was the antiknock value detd. for the sample on which he
was working.
Calvin Brous

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

RECORDS - 117 ONLY ONE

RECORDS - 117 ONLY ONE

RECORDS - 117 ONLY ONE

BC

Call for absorption measurements at various temperatures. C. SALCRAKU. (Bul. Soc. Române Fiz., 1933, 35, 129-131).—The substance is heated electrically in a cell with two quartz windows.

H. J. E.

BC

A-1

Magnetic rotation of fused organic substances,
in connection with H. Markmann's molecular
theory. C. Kitzinger (Zsch. Naturforsch., 1958,
No. 13, 1-4); also A. J. 1958: 255; 256. Deviations
from de Markmann's theory are observed for
1-C₆H₅Me and phosphorane. R. T.

ASU SLA METACOLOGICAL LITERATURE CLASSIFICATION

PROCESSES AND PROPERTIES INDEX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
The electromagnetic rotation of the plane of polarization of light in solutions of organic substances. C. Salomoni and D. Gheorghiu. <i>Bull. sect. sci. acad. roumaine</i> 10, 231-7 (1934).—The sp. consta. (mean values) for the magnetic rotation of polarized Hg light in C_{60} dissolved in the solvents, C_{60}, CS_2, CCl_4 and CCl_3, are for λ 578, 584 and 630 mμ, resp., 0.0490, 0.0374 and 0.108. The consta. are independent of the nature of the solvent. L. R. Steiner																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
<table border="1"> <thead> <tr> <th colspan="2">CLASSIFICATION</th> <th colspan="2">CLASSIFICATION</th> <th colspan="2">CLASSIFICATION</th> <th colspan="2">CLASSIFICATION</th> <th colspan="2">CLASSIFICATION</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> <td>G</td> <td>H</td> <td>I</td> <td>J</td> </tr> <tr> <td>K</td> <td>L</td> <td>M</td> <td>N</td> <td>O</td> <td>P</td> <td>Q</td> <td>R</td> <td>S</td> <td>T</td> </tr> <tr> <td>U</td> <td>V</td> <td>W</td> <td>X</td> <td>Y</td> <td>Z</td> <td>AA</td> <td>AB</td> <td>AC</td> <td>AD</td> </tr> <tr> <td>AE</td> <td>AF</td> <td>AG</td> <td>AH</td> <td>AI</td> <td>AJ</td> <td>AK</td> <td>AL</td> <td>AM</td> <td>AN</td> </tr> <tr> <td>AO</td> <td>AP</td> <td>AQ</td> <td>AR</td> <td>AS</td> <td>AT</td> <td>AU</td> <td>AV</td> <td>AW</td> <td>AX</td> </tr> <tr> <td>AY</td> <td>AZ</td> <td>BA</td> <td>BB</td> <td>BC</td> <td>BD</td> <td>BE</td> <td>BF</td> <td>BG</td> <td>BH</td> </tr> <tr> <td>BI</td> <td>BJ</td> <td>BK</td> <td>BL</td> <td>BM</td> <td>BN</td> <td>BO</td> <td>BP</td> <td>BQ</td> <td>BR</td> </tr> <tr> <td>BS</td> <td>BT</td> <td>BU</td> <td>BV</td> <td>BW</td> <td>BX</td> <td>BY</td> <td>BZ</td> <td>CA</td> <td>CB</td> </tr> <tr> <td>CC</td> <td>CD</td> <td>CE</td> <td>CF</td> <td>CG</td> <td>CH</td> <td>CI</td> <td>CJ</td> <td>CK</td> <td>CL</td> </tr> <tr> <td>CM</td> <td>CN</td> <td>CO</td> <td>CP</td> <td>CQ</td> <td>CR</td> <td>CS</td> <td>CT</td> <td>CU</td> <td>CV</td> </tr> <tr> <td>CW</td> <td>CX</td> <td>CY</td> <td>CZ</td> <td>DA</td> <td>DB</td> <td>DC</td> <td>DD</td> <td>DE</td> <td>DF</td> </tr> <tr> <td>DG</td> <td>DH</td> <td>DI</td> <td>DJ</td> <td>DK</td> <td>DL</td> <td>DM</td> <td>DN</td> <td>DO</td> <td>DP</td> </tr> <tr> <td>DQ</td> <td>DR</td> <td>DS</td> <td>DT</td> <td>DU</td> <td>DV</td> <td>DW</td> <td>DX</td> <td>DY</td> <td>DZ</td> </tr> <tr> <td>EA</td> <td>EB</td> <td>EC</td> <td>ED</td> <td>EE</td> <td>EF</td> <td>EG</td> <td>EH</td> <td>EI</td> <td>EJ</td> </tr> <tr> <td>EK</td> <td>EL</td> <td>EM</td> <td>EN</td> <td>EO</td> <td>EP</td> <td>EQ</td> <td>ER</td> <td>ES</td> <td>ET</td> </tr> <tr> <td>EU</td> <td>EV</td> <td>EW</td> <td>EX</td> <td>EY</td> <td>EZ</td> <td>FA</td> <td>FB</td> <td>FC</td> <td>FD</td> </tr> <tr> <td>FE</td> <td>FF</td> <td>FG</td> <td>FH</td> <td>FI</td> <td>FJ</td> <td>FK</td> <td>FL</td> <td>FM</td> <td>FN</td> </tr> <tr> <td>FO</td> <td>FP</td> <td>FQ</td> <td>FR</td> <td>FS</td> <td>FT</td> <td>FU</td> <td>FV</td> <td>FW</td> <td>FX</td> </tr> <tr> <td>FY</td> <td>FZ</td> <td>GA</td> <td>GB</td> <td>GC</td> <td>GD</td> <td>GE</td> <td>GF</td> <td>GG</td> <td>GH</td> </tr> <tr> <td>GI</td> <td>GO</td> <td>GP</td> <td>GQ</td> <td>GR</td> <td>GS</td> <td>GT</td> <td>GU</td> <td>GV</td> <td>GW</td> </tr> <tr> <td>GX</td> <td>GY</td> <td>GA</td> <td>GB</td> <td>GC</td> <td>GD</td> <td>GE</td> <td>GF</td> <td>GG</td> <td>GH</td> </tr> <tr> <td>GI</td> <td>GO</td> <td>GP</td> <td>GQ</td> <td>GR</td> <td>GS</td> <td>GT</td> <td>GU</td> <td>GV</td> <td>GW</td> </tr> <tr> <td>GX</td> <td>GY</td> <td>HA</td> <td>HB</td> <td>HC</td> <td>HD</td> <td>HE</td> <td>HF</td> <td>HG</td> <td>HH</td> </tr> <tr> <td>HI</td> <td>HO</td> <td>HP</td> <td>HQ</td> <td>HR</td> <td>HS</td> <td>HT</td> <td>HU</td> <td>HV</td> <td>HW</td> </tr> <tr> <td>HX</td> <td>HY</td> <td>HA</td> <td>HB</td> <td>HC</td> <td>HD</td> <td>HE</td> <td>HF</td> <td>HG</td> <td>HH</td> </tr> <tr> <td>HI</td> <td>HO</td> <td>HP</td> <td>HQ</td> <td>HR</td> <td>HS</td> <td>HT</td> <td>HU</td> <td>HV</td> <td>HW</td> </tr> <tr> <td>HX</td> <td>HY</td> <td>IA</td> <td>IB</td> <td>IC</td> <td>ID</td> <td>IE</td> <td>IF</td> <td>IG</td> <td>IH</td> </tr> <tr> <td>II</td> <td>IO</td> <td>IP</td> <td>IQ</td> <td>IR</td> <td>IS</td> <td>IT</td> <td>IU</td> <td>IV</td> <td>IW</td> </tr> <tr> <td>IX</td> <td>IY</td> <td>JA</td> <td>JB</td> <td>JC</td> <td>JD</td> <td>JE</td> <td>JF</td> <td>JG</td> <td>JH</td> </tr> <tr> <td>JI</td> <td>JO</td> <td>JP</td> <td>JQ</td> <td>JR</td> <td>JS</td> <td>JT</td> <td>JU</td> <td>JV</td> <td>JW</td> </tr> <tr> <td>JX</td> <td>JY</td> <td>KA</td> <td>KB</td> <td>KC</td> <td>KD</td> <td>KE</td> <td>KF</td> <td>KG</td> <td>KH</td> </tr> <tr> <td>KI</td> <td>KO</td> <td>KP</td> <td>KQ</td> <td>KR</td> <td>KS</td> <td>KT</td> <td>KU</td> <td>KV</td> <td>KW</td> </tr> <tr> <td>KX</td> <td>KY</td> <td>LA</td> <td>LB</td> <td>LC</td> <td>LD</td> <td>LE</td> <td>LF</td> <td>LG</td> <td>LH</td> </tr> <tr> <td>LI</td> <td>LO</td> <td>LP</td> <td>LQ</td> <td>LR</td> <td>LS</td> <td>LT</td> <td>LU</td> <td>LV</td> <td>LW</td> </tr> <tr> <td>LX</td> <td>LY</td> <td>MA</td> <td>MB</td> <td>MC</td> <td>MD</td> <td>ME</td> <td>MF</td> <td>MG</td> <td>MH</td> </tr> <tr> <td>MI</td> <td>MO</td> <td>MP</td> <td>MQ</td> <td>MR</td> <td>MS</td> <td>MT</td> <td>MU</td> <td>MV</td> <td>MW</td> </tr> <tr> <td>MX</td> <td>MY</td> <td>NA</td> <td>NB</td> <td>NC</td> <td>ND</td> <td>NE</td> <td>NF</td> <td>NG</td> <td>NH</td> </tr> <tr> <td>NI</td> <td>NO</td> <td>NP</td> <td>NQ</td> <td>NR</td> <td>NS</td> <td>NT</td> <td>NU</td> <td>NV</td> <td>NW</td> </tr> <tr> <td>NX</td> <td>NY</td> <td>OA</td> <td>OB</td> <td>OC</td> <td>OD</td> <td>OE</td> <td>OF</td> <td>OG</td> <td>OH</td> </tr> <tr> <td>OI</td> <td>OO</td> <td>OP</td> <td>OQ</td> <td>OR</td> <td>OS</td> <td>OT</td> <td>OU</td> <td>OV</td> <td>OW</td> </tr> <tr> <td>OX</td> <td>OY</td> <td>PA</td> <td>PB</td> <td>PC</td> <td>PD</td> <td>PE</td> <td>PF</td> <td>PG</td> <td>PH</td> </tr> <tr> <td>PI</td> <td>PO</td> <td>PP</td> <td>PQ</td> <td>PR</td> <td>PS</td> <td>PT</td> <td>PU</td> <td>PV</td> <td>PW</td> </tr> <tr> <td>PX</td> <td>PY</td> <td>QA</td> <td>QB</td> <td>QC</td> <td>QD</td> <td>QE</td> <td>QF</td> <td>QG</td> <td>QH</td> </tr> <tr> <td>QI</td> <td>QO</td> <td>QP</td> <td>QQ</td> <td>QR</td> <td>QS</td> <td>QT</td> <td>QU</td> <td>QV</td> <td>QW</td> </tr> <tr> <td>QX</td> <td>QY</td> <td>RA</td> <td>RB</td> <td>RC</td> <td>RD</td> <td>RE</td> <td>RF</td> <td>RG</td> <td>RH</td> </tr> <tr> <td>RI</td> <td>RO</td> <td>RP</td> <td>RQ</td> <td>RR</td> <td>RS</td> <td>RT</td> <td>RU</td> <td>RV</td> <td>RW</td> </tr> <tr> <td>RX</td> <td>RY</td> <td>SA</td> <td>SB</td> <td>SC</td> <td>SD</td> <td>SE</td> <td>SF</td> <td>SG</td> <td>SH</td> </tr> <tr> <td>SI</td> <td>SO</td> <td>SP</td> <td>SQ</td> <td>SR</td> <td>SS</td> <td>ST</td> <td>SU</td> <td>SV</td> <td>SW</td> </tr> <tr> <td>SX</td> <td>SY</td> <td>TA</td> <td>TB</td> <td>TC</td> <td>TD</td> <td>TE</td> <td>TF</td> <td>TG</td> <td>TH</td> </tr> <tr> <td>TI</td> <td>TO</td> <td>TP</td> <td>TQ</td> <td>TR</td> <td>TS</td> <td>TT</td> <td>TU</td> <td>TV</td> <td>TW</td> </tr> <tr> <td>TX</td> <td>TY</td> <td>UA</td> <td>UB</td> <td>UC</td> <td>UD</td> <td>UE</td> <td>UF</td> <td>UG</td> <td>UH</td> </tr> <tr> <td>UI</td> <td>UO</td> <td>UP</td> <td>UQ</td> <td>UR</td> <td>US</td> <td>UT</td> <td>UU</td> <td>UV</td> <td>UW</td> </tr> <tr> <td>UX</td> <td>UY</td> <td>VA</td> <td>VB</td> <td>VC</td> <td>VD</td> <td>VE</td> <td>VF</td> <td>VG</td> <td>VH</td> </tr> <tr> <td>VI</td> <td>VO</td> <td>VP</td> <td>VQ</td> <td>VR</td> <td>VS</td> <td>VT</td> <td>VU</td> <td>VV</td> <td>VW</td> </tr> <tr> <td>VX</td> <td>VY</td> <td>WA</td> <td>WB</td> <td>WC</td> <td>WD</td> <td>WE</td> <td>WF</td> <td>WG</td> <td>WH</td> </tr> <tr> <td>WI</td> <td>WO</td> <td>WP</td> <td>WQ</td> <td>WR</td> <td>WS</td> <td>WT</td> <td>WU</td> <td>WV</td> <td>WW</td> </tr> <tr> <td>WX</td> <td>WY</td> <td>XA</td> <td>XB</td> <td>XC</td> <td>XD</td> <td>XE</td> <td>XF</td> <td>XG</td> <td>XH</td> </tr> <tr> <td>XI</td> <td>XO</td> <td>XP</td> <td>XQ</td> <td>XR</td> <td>XS</td> <td>XT</td> <td>XU</td> <td>XV</td> <td>XW</td> </tr> <tr> <td>XX</td> <td>XY</td> <td>YA</td> <td>YB</td> <td>YC</td> <td>YD</td> <td>YE</td> <td>YF</td> <td>YG</td> <td>YH</td> </tr> <tr> <td>YI</td> <td>YO</td> <td>YP</td> <td>YQ</td> <td>YR</td> <td>YS</td> <td>YT</td> <td>YU</td> <td>YV</td> <td>YW</td> </tr> <tr> <td>YX</td> <td>YY</td> <td>ZA</td> <td>ZB</td> <td>ZC</td> <td>ZD</td> <td>ZE</td> <td>ZF</td> <td>ZG</td> <td>ZH</td> </tr> <tr> <td>ZI</td> <td>ZO</td> <td>ZP</td> <td>ZQ</td> <td>ZR</td> <td>ZS</td> <td>ZT</td> <td>ZU</td> <td>ZV</td> <td>ZW</td> </tr> <tr> <td>ZX</td> <td>ZY</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										CLASSIFICATION		CLASSIFICATION		CLASSIFICATION		CLASSIFICATION		CLASSIFICATION		1	2	3	4	5	6	7	8	9	10	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GA	GB	GC	GD	GE	GF	GG	GH	GI	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	HA	HB	HC	HD	HE	HF	HG	HH	HI	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HA	HB	HC	HD	HE	HF	HG	HH	HI	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	IA	IB	IC	ID	IE	IF	IG	IH	II	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	JA	JB	JC	JD	JE	JF	JG	JH	JI	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	KA	KB	KC	KD	KE	KF	KG	KH	KI	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	LA	LB	LC	LD	LE	LF	LG	LH	LI	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	MA	MB	MC	MD	ME	MF	MG	MH	MI	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	NA	NB	NC	ND	NE	NF	NG	NH	NI	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	OA	OB	OC	OD	OE	OF	OG	OH	OI	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	PA	PB	PC	PD	PE	PF	PG	PH	PI	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	QA	QB	QC	QD	QE	QF	QG	QH	QI	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	RA	RB	RC	RD	RE	RF	RG	RH	RI	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	SA	SB	SC	SD	SE	SF	SG	SH	SI	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	TA	TB	TC	TD	TE	TF	TG	TH	TI	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	UA	UB	UC	UD	UE	UF	UG	UH	UI	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	VA	VB	VC	VD	VE	VF	VG	VH	VI	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	WA	WB	WC	WD	WE	WF	WG	WH	WI	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	XA	XB	XC	XD	XE	XF	XG	XH	XI	XO	XP	XQ	XR	XS	XT	XU	XV	XW	XX	XY	YA	YB	YC	YD	YE	YF	YG	YH	YI	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY								
CLASSIFICATION		CLASSIFICATION		CLASSIFICATION		CLASSIFICATION		CLASSIFICATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
1	2	3	4	5	6	7	8	9	10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
A	B	C	D	E	F	G	H	I	J																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
K	L	M	N	O	P	Q	R	S	T																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
U	V	W	X	Y	Z	AA	AB	AC	AD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
GI	GO	GP	GQ	GR	GS	GT	GU	GV	GW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
GX	GY	GA	GB	GC	GD	GE	GF	GG	GH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
GI	GO	GP	GQ	GR	GS	GT	GU	GV	GW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
GX	GY	HA	HB	HC	HD	HE	HF	HG	HH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HI	HO	HP	HQ	HR	HS	HT	HU	HV	HW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HX	HY	HA	HB	HC	HD	HE	HF	HG	HH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HI	HO	HP	HQ	HR	HS	HT	HU	HV	HW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
HX	HY	IA	IB	IC	ID	IE	IF	IG	IH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
II	IO	IP	IQ	IR	IS	IT	IU	IV	IW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
IX	IY	JA	JB	JC	JD	JE	JF	JG	JH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
JI	JO	JP	JQ	JR	JS	JT	JU	JV	JW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
JX	JY	KA	KB	KC	KD	KE	KF	KG	KH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
KI	KO	KP	KQ	KR	KS	KT	KU	KV	KW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
KX	KY	LA	LB	LC	LD	LE	LF	LG	LH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LI	LO	LP	LQ	LR	LS	LT	LU	LV	LW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
LX	LY	MA	MB	MC	MD	ME	MF	MG	MH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
MI	MO	MP	MQ	MR	MS	MT	MU	MV	MW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
MX	MY	NA	NB	NC	ND	NE	NF	NG	NH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NI	NO	NP	NQ	NR	NS	NT	NU	NV	NW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
NX	NY	OA	OB	OC	OD	OE	OF	OG	OH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OI	OO	OP	OQ	OR	OS	OT	OU	OV	OW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
OX	OY	PA	PB	PC	PD	PE	PF	PG	PH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
PI	PO	PP	PQ	PR	PS	PT	PU	PV	PW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
PX	PY	QA	QB	QC	QD	QE	QF	QG	QH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
QI	QO	QP	QQ	QR	QS	QT	QU	QV	QW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
QX	QY	RA	RB	RC	RD	RE	RF	RG	RH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RI	RO	RP	RQ	RR	RS	RT	RU	RV	RW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
RX	RY	SA	SB	SC	SD	SE	SF	SG	SH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SI	SO	SP	SQ	SR	SS	ST	SU	SV	SW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
SX	SY	TA	TB	TC	TD	TE	TF	TG	TH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
TI	TO	TP	TQ	TR	TS	TT	TU	TV	TW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
TX	TY	UA	UB	UC	UD	UE	UF	UG	UH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
UI	UO	UP	UQ	UR	US	UT	UU	UV	UW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
UX	UY	VA	VB	VC	VD	VE	VF	VG	VH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
VI	VO	VP	VQ	VR	VS	VT	VU	VV	VW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
VX	VY	WA	WB	WC	WD	WE	WF	WG	WH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
WI	WO	WP	WQ	WR	WS	WT	WU	WV	WW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
WX	WY	XA	XB	XC	XD	XE	XF	XG	XH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
XI	XO	XP	XQ	XR	XS	XT	XU	XV	XW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
XX	XY	YA	YB	YC	YD	YE	YF	YG	YH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
YI	YO	YP	YQ	YR	YS	YT	YU	YV	YW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
YX	YY	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ZI	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
ZX	ZY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
The molar polarization of nitrobenzene. The influence of concentration of solutions of nitrobenzene in some non-polar substances. Constantin, Sakranu. <i>Bull. inst. sci. acad. roumaine</i> 10, 234-43 (1934).—The molar polarizations of solns. of PhNO₂ in CCl₄ and CS₂ over the whole concn. range vary linearly with mol. concn., indicating that the peripheral electronic configuration of PhNO₂ is not changed by assocn. between the PhNO₂ dipoles. L. E. Steiner																			
ASACSLA METALLURGICAL LITERATURE CLASSIFICATION																			
SIGNATURE										SIGNATURE									
SIGNATURE										SIGNATURE									

CA

The magnetic susceptibility of organic liquids. Application to the additivity law. Constantin Salceanu and Demitru Gheorghiu. *Bull. soc. roumaine phys.* 36, 77-81 (1934); cf. C. A. 29, 10934.—Mixts. of Me₂CO with PhNO₂ and with α-methylnaphthalene obey the additivity law. Deviations in other cases may be accounted for by a chem. change.
R. E. DeRight

1

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND ORDERS

100 AND 4TH ORDERS

COPY

MATERIALS INDEX

A.S.A. METALLURGICAL LITERATURE CLASSIFICATION

RESEARCH AND DEVELOPMENT

1ST AND 2ND ORDERS

100 AND 4TH ORDERS

1ST AND 2ND ORDERS		PROCESSES AND PROPERTIES INDEX		1RD AND 2TH ORDERS	
CA				2	
The velocity of sound in liquids. I. Constantin Salomaha. <i>Bull. sci. sci. acad. romaine</i> 24, 466-72 (1942).---To calc. the true velocity of sound in liquids, the factor $\sqrt{\gamma}$, where $\gamma = C_p/C_v$, must be applied to the Newtonian formula to provide for adiabatic processes. Values so calcd. show better agreement with expt. than those calcd. without $\sqrt{\gamma}$. This consideration is also applied to the Bunsen-Roscoe relations for calc. of the compressibility of liquids. II. <i>Ibid.</i>: 473-8.---The velocity of sound (v) was measured by the resonance method (C. A. 32, 1154) at 20° in solns. of LiCl, NaCl, KCl, KI, NaNO₃, (NH₄)₂SO₄, FeCl₃ and CuSO₄ at various concns. The frequency was 1800 hertz; v increases linearly with the d. of the soln.; at equal salt concn. v is higher for salts of higher mol. wt. For sodium soln. (B) v has a sharp min. when concn. = 2%; for resorcinol (B), at 23°, a broad min. occurs at 6%. At higher concns. v for I and II approach a limit. For pure H₂O at 23° v = 1478 m./sec. Through <i>Chem. Zentr.</i> 1942, II, 1766-7. Cyrus Feldman					
ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION					
REGION 1		REGION 2		REGION 3	
SUBORD 1		SUBORD 2		SUBORD 3	
SUBORD 1		SUBORD 2		SUBORD 3	

SALCEANU, C.; ZAGANESCU, M.

Measurement of the viscosity of metallic wires by the method of resonance.
p. 59

Academia Republicii Populare Romine. Gaza de Cercetari Stiintifice,
Timisoara. STUDII SI CERCETARI STIINTIFICE. SERIA I: STIINTE MATEMATICE,
FIZICE, CHIMICE SI TEHNICE.
Vol. 2, No. 1/4, Jan./Dec. 1955

Timisoara, Rumania

SOURCE: East European List (EEL) Library of
Congress, Vol. 6, No. 1, January 1957

SALCEANU, C.

New studies on the viscosity of metallic wires. p. 65

Academia Republicii Populare Romine. Baza de Cercetari Stiintifice,
Timisoara. STUDII SI CERCETARI STIINTIFICE. SERIA I: STIINTE MATEMATICE,
FIZICE, CHIMICE SI TEHNICE.
Vol. 2, No. 1/4, Jan./Dec. 1955

Timisoara, Rumania

SOURCE: East European List (EEAL) Library of
Congress, Vol. 6, No.1, January 1957

SALCFANU, C.; ZAGANESCU, M.

Experimental study on the elastic extension of metallic wires. p. 75

Academia Republicii Populare Romine. Baza de Cercetari Stiintifice,
Timisoara. STUDII SI CERCETARI STIINTIFICE. SERIA I: STIINTE MATEMATICE,
FIZICE, CHIMICE SI TEHNICE.
Vol. 2, No. 1/4, Jan./Dec. 1955

Timisoara, Rumania

SOURCE: East European List (EEAL) Library of
Congress, Vol. 6, No. 1, January 1957

SĂLCEANU, C

RUMANIA/Physical Chemistry. Liquids and Amorphous Bodies.
Gases.

B-6

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14563

Author : C. Sălceanu

Inst : Academy of Sciences of The People's Republic of Rumania

Title : Internal Pressure in Liquids

Orig Pub: Studii și cercetări știint. Acad. RPR. Basa Timișoara.
Ser. 1, 1955, 2, Nos 1-4, 87-90

Abstract: Basing on the author's foregoing work (Phys. Chemie, 1940, A187, 170-174), and dimensionality considerations, the following equation was derived: $p = C \sqrt{N_d/M}^{2/3} \beta^{-1/2}$, where p was the internal pressure in the liquid, $\sqrt{N_d/M}^{1/3}$ was the number of particles per unit of length (see the above reference), β was the compressibility, and C was a constant. P-s computed using this equation for a series of substances are shown in a table.

Card 1/1

SALCEWICZ, Jozef, prof. dr inz.; WASILEWSKI, Piotr, dr inz.; WEGIEL, Jerzy,
dr inz.

Studies on the course and effects of mechanical working of
some assortments. Hutnik P 30 no.12:395-399 D '63.

BC

Equilibrium constant for esterification in the
gaseous phase. J. Baldwin (Recs. Chem., 1934,
14, 702-731).—EtOH-AcOH mixtures have been
examined. R. T.

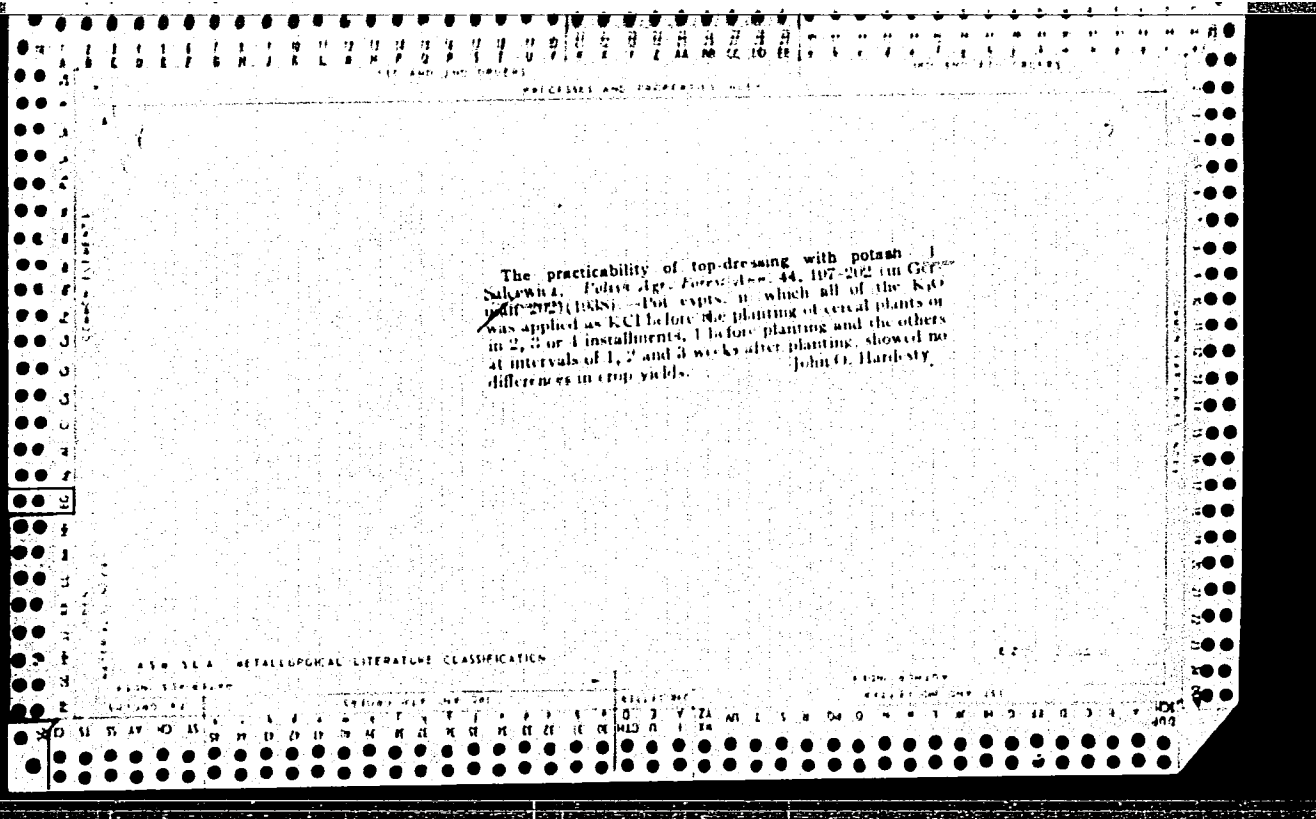
ASAC-5LA METALLURGICAL LITERATURE CLASSIFICATION

AUTHOR INDEX		SUBJECT INDEX	
1ST AND 2ND LETTERS	3RD AND 4TH LETTERS	1ST AND 2ND LETTERS	3RD AND 4TH LETTERS
A	1	A	1
B	2	B	2
C	3	C	3
D	4	D	4
E	5	E	5
F	6	F	6
G	7	G	7
H	8	H	8
I	9	I	9
J	10	J	10
K	11	K	11
L	12	L	12
M	13	M	13
N	14	N	14
O	15	O	15
P	16	P	16
Q	17	Q	17
R	18	R	18
S	19	S	19
T	20	T	20
U	21	U	21
V	22	V	22
W	23	W	23
X	24	X	24
Y	25	Y	25
Z	26	Z	26

COMMON ELEMENTS										PROCESSES AND PROPERTIES INDEX										METALS AND ALLOYS																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
										Physicochemical methods of analysis of esterification mixture. J. Salcewicz. <i>Roczniki Chem.</i> 14, 722-38 (1934). The H_2O, alc. and EtOAc contents of mists. contg. % of AcOH are detd. by adding 0% aq. AcOH until the mists become turbid, and applying the result to the phase diagram of the given system. The error is not greater than 0.15%. H. C. A.																													
ASW-SLA METALLOGICAL LITERATURE CLASSIFICATION																																							

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
COMMON ELEMENTS																										COMMON VARIABLES INDEX																									
CA 15 Use of sodium nitrate and ammonium sulfate in conjunction with different proportions of potash fertilizers on soil which reacts strongly to potassium. Jozef Mikulowski-Pomorski and Jan Salcewicz, <i>Polish Agr. Forestal Ann.</i> 31, 116-22(1934). — NaNO_3 restricts the intake of K by maize and is effective as a fertilizer only when used with heavy dressings of K. B. C. A.																										PROCESSES AND PROPERTIES INDEX																									
																										ASB. S.L.A. METALLURGICAL LITERATURE CLASSIFICATION																									
1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																																																			
Specific heat of minerals and of rare earth salts. W. Swatoslawski, J. Sakiewicz, J. Usakiewicz, A. Zmaczynski and J. Zlotowski. <i>Roczniki Chem.</i> 19, 12-14 (1935). By use of an ice calorimeter, av. values for the sp. heat c_p were obtained for the following: Ag, $c_p = 0.06532$; Sb, $c_p = 0.04745$; johannite, $c_p = 0.1280$; thorite, $c_p = 0.1320$; samarskite, $c_p = 0.1078$; monazite, $c_p = 0.1024$; $\text{Sn}_2\text{3NH}_4\text{F}$, $c_p = 0.4223$; Y nitrate, $c_p = 0.2752$; La nitrate, $c_p = 0.2713$; Y oxalate, $c_p = 0.4840$; La oxalate, $c_p = 0.2647$; cane sugar, $c_p = 0.2774$, $c_p = 0.2810$, $dc/dt = 0.00113$ and $c_p = 0.2689$. J. F. Matejczyk																																																			
ASTM - S. A. METALLURGICAL LITERATURE CLASSIFICATION																																																			



STYCIEŃ 2, 3 0 2 E F

Final ✓ Certain problems in the coal chemical industry. [Gazet]
Salcewicz. *Koks, Smola, Gaz* 1, 2-6 (1956).—A discussion
of improvements required for the expansion of Polish coke
and gas installations.
R. S. Lubomirski

DZAO SZU-CZAN [TSao Shu-ch'ang]; SALCEWICZ, Jczer

Properties of coke in dependence on the coal type and degasification conditions. Koks smola gaz 6 no.6:191-202 '61.

1. Katedra Chaemicznej Technologii Wegla Politechniki Slaskiej.

SALCEWICZ, Jozef; FRANKL, Zygmunt

Heating rate as a factor of improving the caking ability of coal. Koks smola gaz 6 no.6:202-211 '61.

1. Politechnika Slaska, Instytut Chemicznej Przerobki Wegla.

SALCEWICZ, Jozef; ZIELINSKI, Henryk

Studies on the influence of the temperatures of oxidation and carbonization on the quality of formed coke obtained by the IChPW method. Koks 7 no.6:207-210 N-D '62.

1. Katedra Chemicznej Technologii Węgla, Politechnika, Gliwice,
i Instytut Chemicznej Przerobki Węgla, Zabrze.